

12/27/2010



103614354

Docket No.: EMS-368US

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

(a) Deene A. Dafoe

(b) Xuan Tang

Execution Date(s): (a) and (b) December 17, 2010

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other: _____

2. Name and address of receiving party(ies):

Name: EMC Corporation

Internal Address:

Street Address:

176 South Street

Hopkinton, MA 01748

Country: USA



Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application

A. Patent Application No.(s)

B. Patent No.(s)

(c) 12/924,568

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Muirhead and Saturnelli, LLC

Internal Address:

Street Address: 200 Friberg Parkway
Suite 1001

City: Westborough

State: Massachusetts

Zip: 01581

Fax Number: 508-898-8602

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41).....\$ 40.00

☐ Authorized to be charged by credit card

☒ Authorized to be charged to deposit account

☐ Enclosed

☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number _____ 05-0889

Authorized User Name _____ Anne E. Saturnelli

9. Signature:

Anne E. Saturnelli, Reg. No. 41,290

Name of Person Signing

Signature

December, 2010

Date

Total number of pages including cover sheet, attachments, and documents: 9

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:

Mail Stop Assignment Recordation Services
Director of the U.S. Patent and Trademark Office

P.O. Box 1450, Alexandria, VA 22313-1450

12/27/2010 HTOW11 00000064 050889 12924568

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40.00 DA

PATENT

REEL: 025615 FRAME: 0829

ASSIGNMENT

WHEREAS, we, Kevin S. Labonte, Deene A. Dafoe, Xuan Tang, Utkarsh Vipul, Tianming Zhang, Shailesh Surendra Padwal and Muhamad Djunaedi, have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled **TECHNIQUES FOR DETERMINING TRANSACTION PROGRESS**, the specification of which:

☐ is being executed on even date herewith and is about to be filed in the United States Patent Office;

☒ was filed on September 30, 2010 as U.S. Application No. 12/924,568;

☐ was patented under U.S. Patent No. _____ on _____.

WHEREAS, EMC Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 176 South Street, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the

giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals as set forth below:

Date: _____

Inventor's Signature

Print full name of first inventor: Kevin S. Labonte
Residence: 7 John Drive
North Grafton, MA 01536
Citizenship: USA
Mailing Address: Same

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____

On this ____ day of _____, 2010, then personally appeared before me the above-named Kevin S. Labonte known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☐ (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Notary Public

Print Name:

My Commission expires:

Date: Dec 17, 2010

Deene A. Dafoe
Inventor's Signature

Print full name of second inventor: **Deene A. Dafoe**
Residence: **4 Harris Avenue**
Northborough, MA 01532
Citizenship: USA
Mailing Address: **Same**

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Middlesex

On this 17th day of December, 2010, then personally appeared before me the above-named **Deene A. Dafoe** known to me through satisfactory evidence of identification ☒ employee identification card; ☐ driver's license; ☐ (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Kristina A. White
Notary Public
Print Name: Kristina A. White
My Commission expires: _____

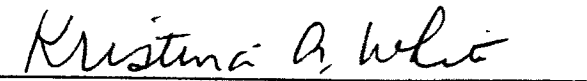
Date: 12/17/2010

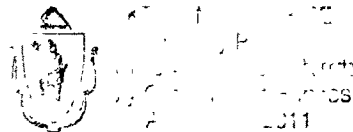

Inventor's Signature

Print full name of third inventor: Xuan Tang
Residence: 6 Prestwick Drive
Hopkinton, MA 01748
Citizenship: P.R. China
Mailing Address: Same

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF Middlesex

On this 17th day of December, 2010, then personally appeared before me the above-named Xuan Tang known to me through satisfactory evidence of identification
☒ employee identification card; ☐ driver's license; ☐ (other)
_____ to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he/she executed the same as his/her free act and
deed for the purposes therein contained.


Notary Public
Print Name: Kristina A. White
My Commission expires:



Date: _____

Inventor's Signature

Print full name of fourth inventor:

Utkarsh Vipul

Residence:

297 Turnpike Road, Apt. 801
Westborough, MA 01581

Citizenship:

India

Mailing Address:

Same

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____

On this ____ day of _____, 2010, then personally appeared before me the above-named **Utkarsh Vipul** known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☐ (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Notary Public

Print Name:

My Commission expires:

Date: _____

Inventor's Signature

Print full name of fifth inventor: **Tianming Zhang**
Residence: 9 Cardinal Circle
Shrewsbury, MA 01545
Citizenship: USA
Mailing Address: Same

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____

On this ____ day of _____, 2010, then personally appeared before me the above-named **Tianming Zhang** known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☐ (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Notary Public

Print Name:

My Commission expires:

Date: _____

Inventor's Signature

Print full name of sixth inventor:

Shailesh Surendra Padwal

Residence:

3 Royal Crest Drive #12
Marlborough, MA 01752

Citizenship:

India

Mailing Address:

Same

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF _____

On this ____ day of _____, 2010, then personally appeared before me the above-named **Shailesh Surendra Padwal** known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☐ (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Notary Public

Print Name:

My Commission expires:

Date: _____

Inventor's Signature

Print full name of seventh inventor:

Muhamad Djunaedi

Residence:

15 Washington Road
Marlborough, MA 01532

Citizenship:

Indonesia

Mailing Address:

Same

COMMONWEALTH OF MASSACHUSETTS
COUNTY OF _____

On this ____ day of _____, 2010, then personally appeared before me the above-named **Muhamad Djunaedi** known to me through satisfactory evidence of identification ☐ employee identification card; ☐ driver's license; ☐ (other) _____ to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Notary Public

Print Name:

My Commission expires: